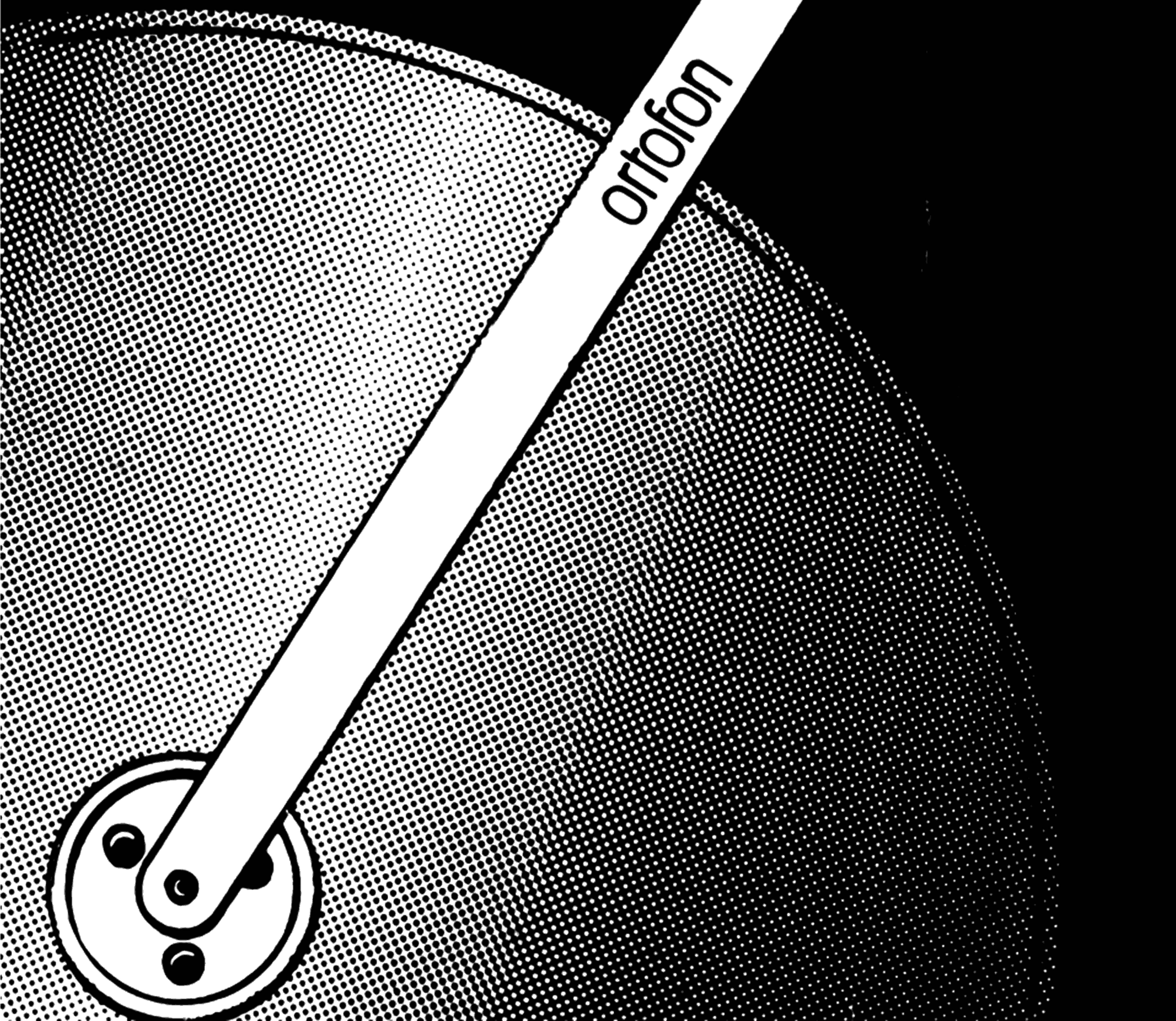


# ortofon

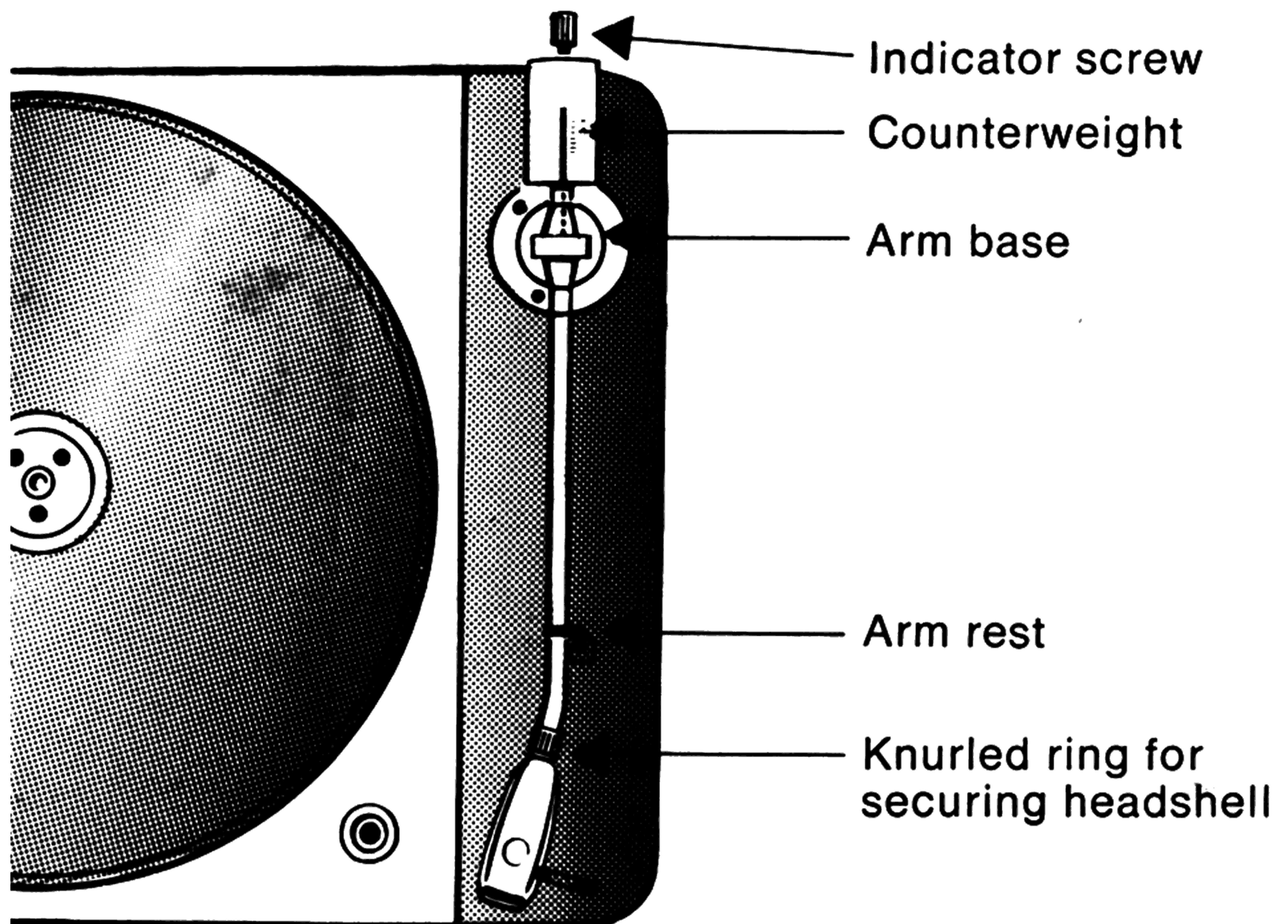
accuracy in sound

COPENHAGEN – DENMARK

## Mounting the ORTOFON TONEARM RF 297



297



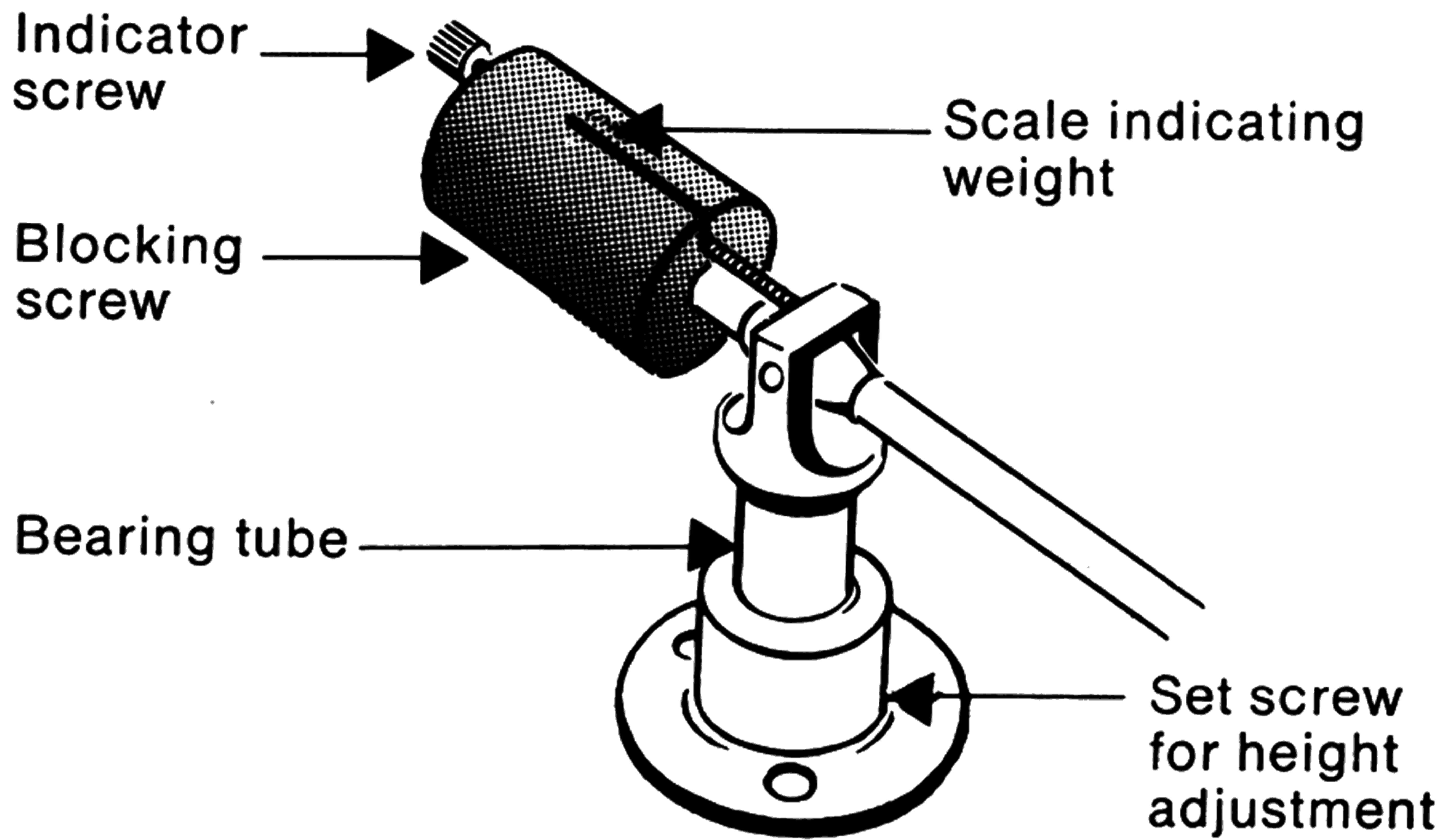
**Fig. 3 Adjustment**

When the arm has been mounted, insert the headshell in the open end of the arm and secure with a turn of the knurled ring.

To level the arm, place a record on the turntable and using the finger lift, gently place the pickup on the record.

Loosen the set screw in the arm base and adjust the height of the arm so that the arm tube is parallel to the turntable.

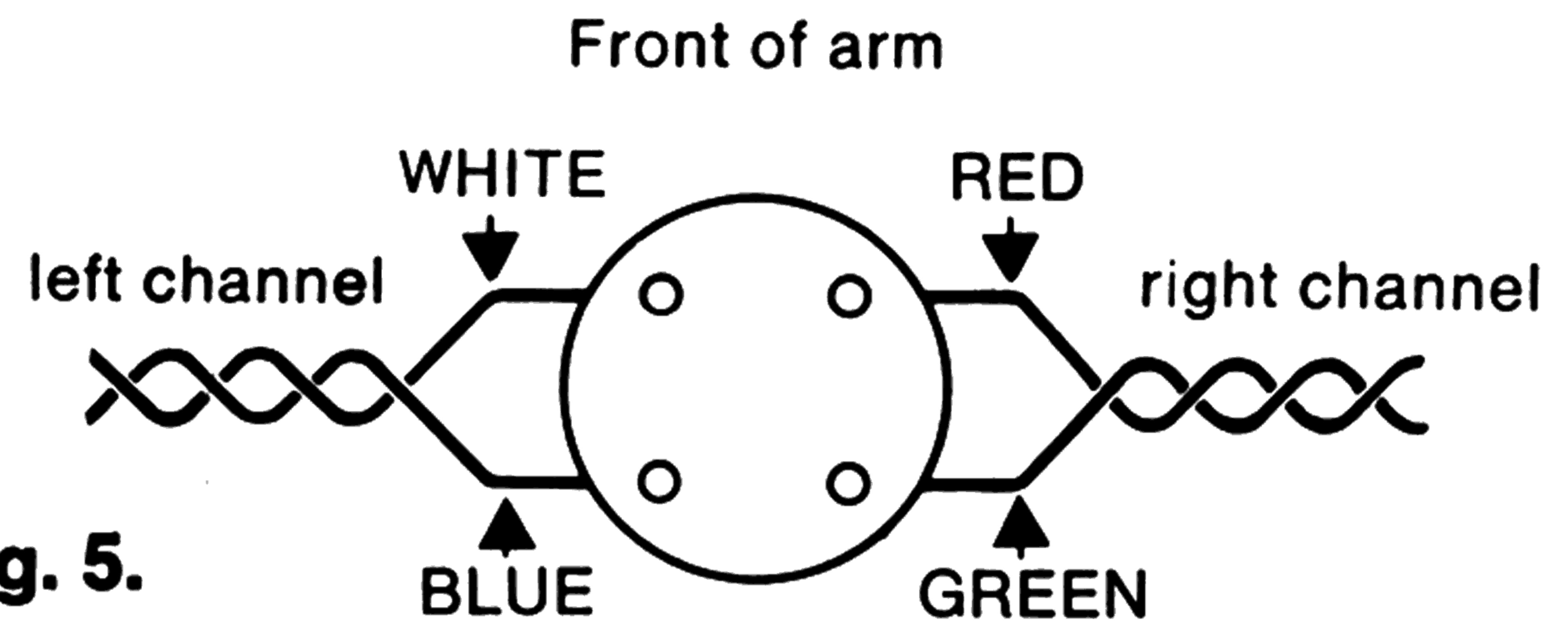
When positioning the arm rest make sure that there is a suitable distance between arm and headshell, when placed in the rest, and a 12" record (LP size) on the turntable.



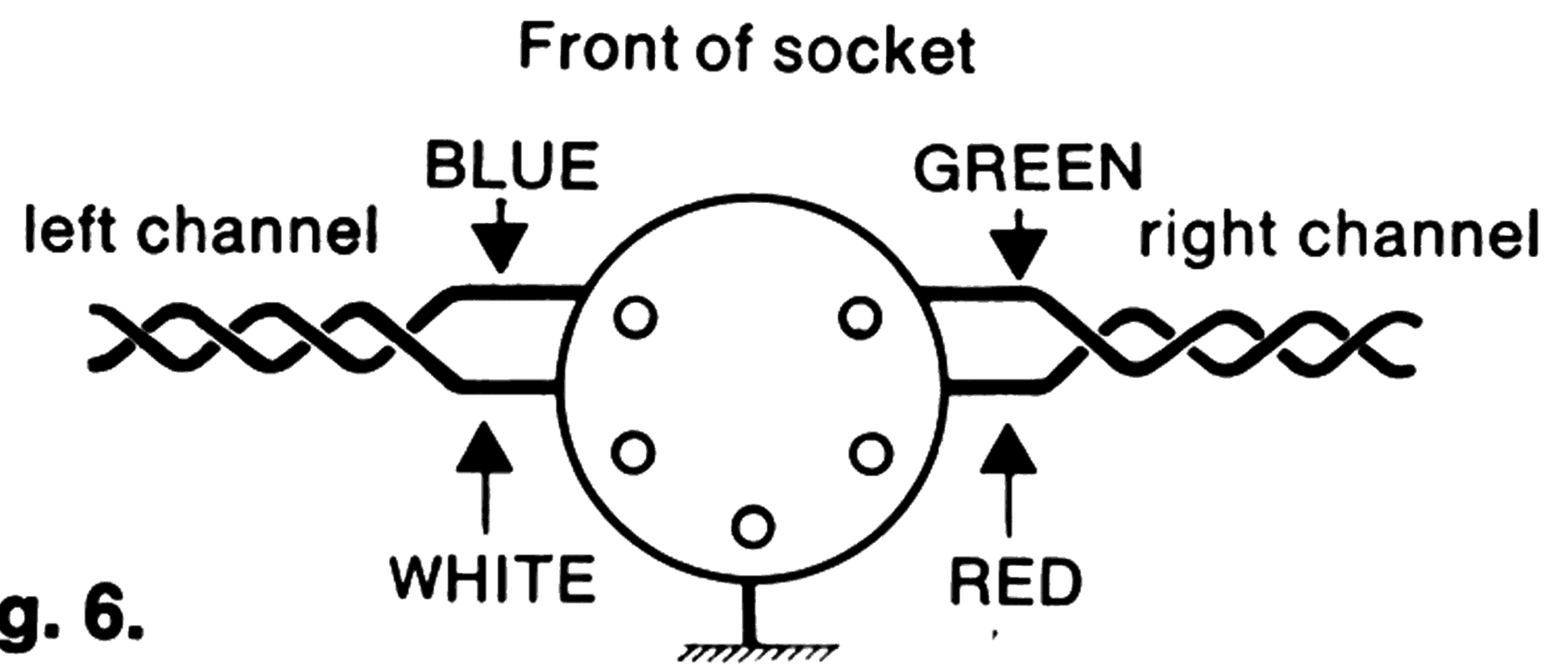
**Fig. 4 Re-adjustment of the counterweight**

The RF 297 counterweight has been adjusted in the factory to balance a total headshell weight of 31 grams. However, if the adjustment accidentally gets changed, the following steps should be taken:

- Remove the blocking screw – loosen set screw below.
- With the headshell in the arm, move the counterweight back and forth, whilst rotating, in order to find the exact balance and alignment of spring.
- When the correct position has been found, fasten the counterweight and replace blocking screw.
- Turn scale to zero and place the arm in horizontal position.



**Fig. 5.**



**Fig. 6.**

## Figs. 5 and 6 Electrical connections

There are four contact pins in the arm. The two left pins represent the left channel and the two right pins represent the right channel. The lower pins are the "cold" terminals and the upper pins are the "hot" terminals (Fig. 5).

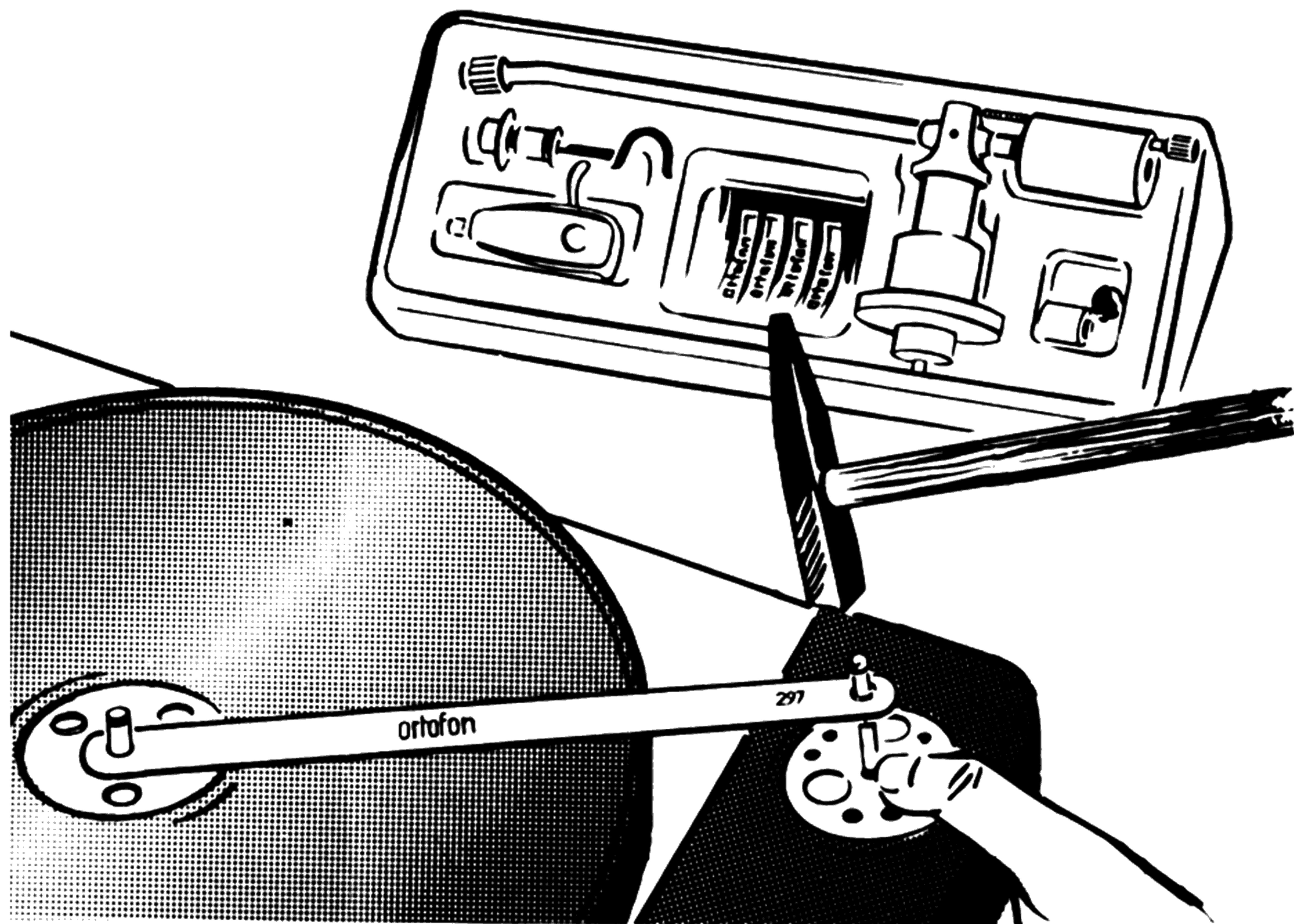
If the arm is fitted with a socket for plug-in cables, the wires are internally connected to the socket as shown in Fig. 6.

## Wiring

There are two pairs of twisted wires emerging from the base: Red/Green and White/Blue, together with a single black wire which may be used for grounding the arm. When used with stereo equipment, the Red/Green pair of wires should be connected to the right amplifier and the White/Blue to the left amplifier, so that the White/Red wires go to the "hot" terminals and the Green/Blue wires to the "ground" terminals of the inputs.

When used with mono equipment, the Red/White wires should both be connected to the "hot" input terminal and the Green/Blue to "ground" terminal.

Although all Ortofon electro-dynamic cartridges have a low impedance and are relatively insensitive to hum pick up, these wires should be kept away from the motor, power lines and power transformers (such as those found in amplifiers and tuners). The two wires must remain twisted (screening is not necessary). It is suggested that you attach a small, five-terminal mounting board or plate near the arm base but away from the motor. Cut the arm wires to a convenient length and solder them to the terminals. This strip is then connected to the pre-amplifier or Ortofon transformer with the customary shielded wire.

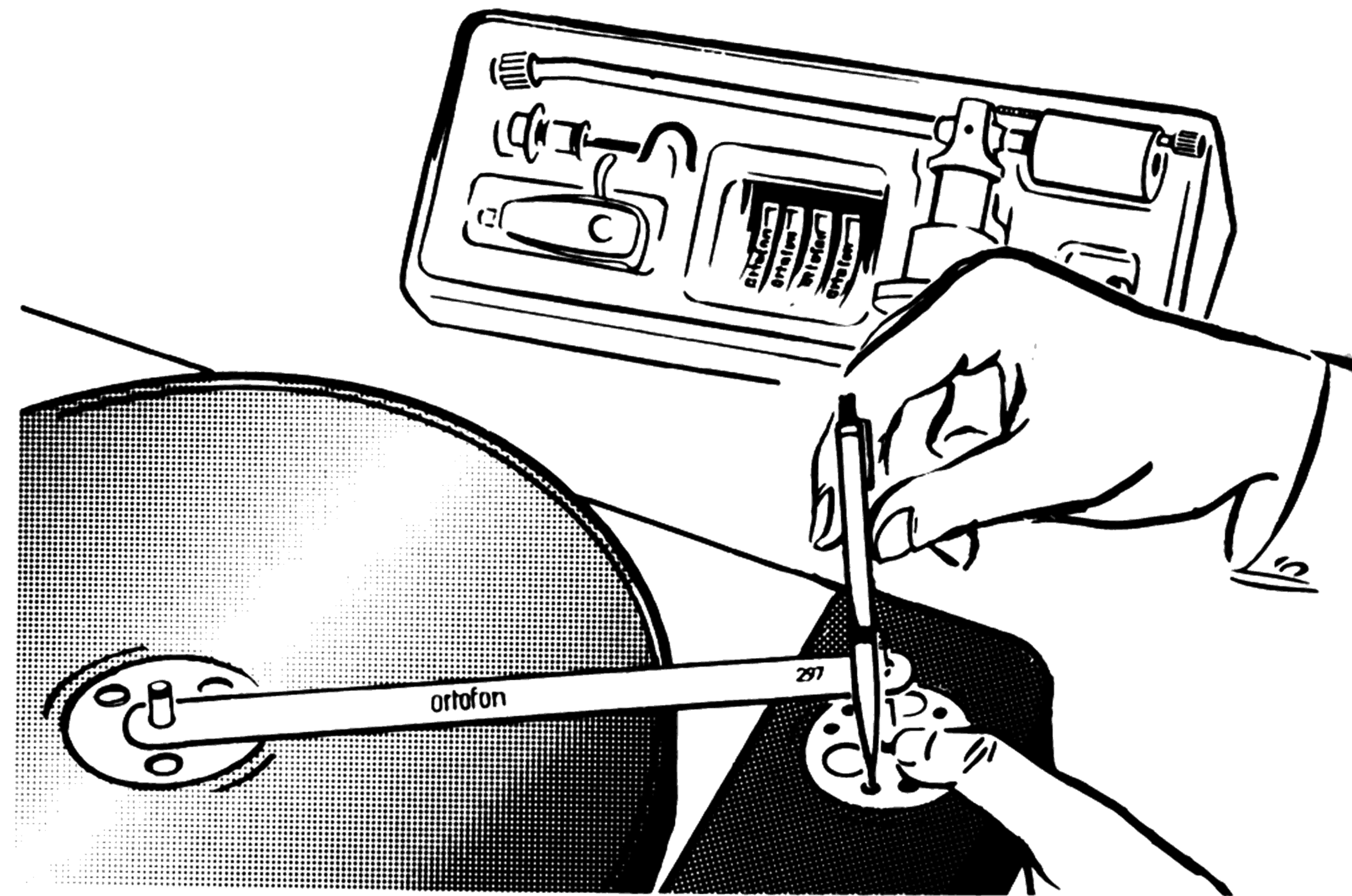


**Fig. 1 Positioning the arm base**

Mounting of your Ortofon tone arm is done with the aid of the ruler, base and pin provided. Figs. 1 and 2 show how the tools should be used.

To ensure correct spacing between turntable centre and arm base, place the ruler on your turntable slipping one hole over the centre tap and the other onto the plastic base.

Move the base to a convenient spot on the mounting board so that there is a suitable distance between the arm, when placed in its rest, and a 12" record (LP size) on the turntable. Place the pin in the centre hole of the base and give a light tap with a small hammer to ensure that the pin holds the base in position.



**Fig. 2 Fixing the arm base**

Place marks on the mounting board for the screws as shown. The ruler may now be removed.

Use the holes marked 1".

Remove the mounting base. Drill a centre hole of 22 mm in diameter, equal to 7/8". When drilling, care should be taken that the holes are of a size that will fit the screws.